

Overview

The Solecis AVS-SL-PR-0201-0301 Presentation Switcher (**FG1330-2020-01**) combines switching of PC, computer, video and audio for presentation and conference rooms, home cinema, AV Rental Companies and any environment where a number of mixed source types need to be displayed.

(front)



(rear)



FIG. 1 Solecis AVS-SL-PR-0201-0301 Presentation Switcher

The AVS-SL-PR-0201-0301 features a total of 5 AV inputs and a programmable serial output for controlling projectors, plasma and LCD displays.

There are 2 wide-band (250MHz -3dB) computer inputs on HD-15 connectors, 3 video inputs each of which can be either composite or YC. 5 stereo audio follow-video/ computer inputs on RCA/Captive-Wire connectors each with independent volume control and preset input attenuation which is retained within the non-volatile memory of the AVS-SL-PR-0201-0301.

Full video and audio breakaway is available with RS232 control along with a master volume control for total flexibility. Regardless of the video input type (CV or YC), both CV and YC outputs are available simultaneously which allows mixed format inputs to be displayed without switching.

The AVS-SL-PR-0201-0301 also supports a balanced microphone (with phantom power if required) for which the gain and tone can easily be adjusted from the PC based setup software. The microphone input can be mixed onto the switched audio output and is then presented on a balanced mixed output.

Control of the AVS-SL-PR-0201-0301 can be from the front panel or by RS232 control from a computer or AV control system. The programmable serial output will control power on and off and switch the inputs of the projector or display. It is easily programmed using the Solecis Device Configuration Software which includes a library of common display devices to reduce installation time.

Projector control includes programmable RS232 commands for Power ON/OFF, RGB, YC and CV inputs and when supported, the devices power status is interrogated and displayed on the front panel.

Product Specifications

AVS-SL-PR-0201-0301 Specifications	
RGB	
RGB Inputs:	2
Connector:	HD-15
Level:	Analog
Max Level:	1V p-p
Impedance:	75 ohm
Bandwidth	250MHz -3dB
Return Loss	-38dB @ 10MHz, -20dB @ 100MHz
Adjacent Input Crosstalk:	-80dB @ 10MHz, -70dB @ 100MHz
Sync Input	
Level:	TTL / Analog
Max Level:	5V p-p
Impedance:	75 ohm
Video Input	
Number:	3
Connectors:	RCA & 4 pin mini din S-Video
Type:	CV or YC
Bandwidth:	50 MHz -3dB
Differential Phase Error:	0.05%
Differential Gain Error:	0.03%
Crosstalk:	-60dB @ 1MHz

AVS-SL-PR-0201-0301 Specifications (Cont.)

Audio Input	
Number:	6
Level:	Analog
Connector:	RCA
Type:	Unbalanced analog
Max Level	2V p-p
Impedance	47K ohm
Audio Response	20Hz - 50KHz
Microphone	Balanced / Unbalanced
Phantom Power	12V internal / 48V max external
RGB Output	
Number:	2
Connector:	HD-15
Level:	Analog
Gain:	Unity
Sync	Output
Impedance:	75 ohm
Sync Level:	TTL
Sync Impedance:	75 ohm
Video Output	
Number	1
Connectors	One RCA for Composite and one 4 pin mini din S-Video
Audio Output	
Connector	RCA & Captive-wire
Switched	1 unbalanced with volume control
Mixed	1 balanced / unbalanced
Impedance	600 ohm
Power:	• 110-240V 50/60Hz • Power Connector: IEC
Power Consumption:	15W
Dimensions (HWD):	44 x 441 x 174
Weight:	1.4kg
Included Accessories:	1U Rack mounting kit
Certifications:	• CE • UL60950 • FCC class B, part 15 • RoHS/WEEE compliant

Safety Instructions

Please read these instructions before using your AMX Solecis device. Failure to comply with these instructions could result in fire, electrical shock, personal injury, death, or damage to the equipment.

Power Source

Use only a 3-wire grounding type source. The power source should not exceed 264VAC. Do not remove under any circumstances the ground wire.

Power Cord

Use only the cord shipped with the unit. Do not use the cord if it has become damaged or frayed. Contact your AMX Solecis dealer if you need to replace the power cord.

Grounding

The interface is grounded through the grounding conductor on the power cord. To avoid electric shock plug the power cord into a properly wired receptacle. Do not defeat the purpose of the grounding-type plug.

Fuse

For protection against the risk of fire, use only a fuse of the same rating and type.

Liquid Spills

Do not set drinks on top of the unit or immerse the unit in liquid.

Do Not Disassemble

This device contains no user serviceable parts. All servicing must be performed by a qualified service technician.

For Safety Reasons

- Do not place the unit on an unstable surface.
- Do not use near water or sources of heat.
- Use only recommended attachments.
- Use the type of power supply as specified.

Unplug the power to the unit and refer servicing to qualified personnel under the following conditions:

- If liquid has been spilled or the unit has been exposed to rain or water.
- If it does not operate normally when the operating instructions are followed or if it exhibits a distinct change in performance indicating a need for service.
- If the unit has been dropped or the cabinet damaged.

Installation

Note: Make sure the unit is unplugged from the mains power source while making initial connections.

PC Connections

1. Connect the PC sources to the sockets labelled PC 1 & PC 2.
2. Connect the primary output to Output 1 and then if a secondary output is required, connect it to Output2.
3. Connect the audio sources for the PC inputs to the inputs labelled PC 1 & PC 2 in the audio block.

Video Connections

1. Connect the Composite and S-Video sources to the inputs labelled Video 1, Video 2 & Video 3.
2. Connect the corresponding audio input to it's socket in the audio block.
3. Connect the video display device to either the composite output and/or the S-Video output.

CAUTION: Do not connect a composite and S-Video input to the same input, this may damage the equipment. Only the video output should ever have both connections populated.

Audio Connections

1. If an auxiliary audio input is required then connect it to the input labelled AUX in the audio block.
2. Connect the audio output to the input of the chosen amplifier or other audio device.

Microphone Connections

The unit comes with an internal 12V supply for use as microphone phantom power. If this is not required or a separate phantom power supply is required then make sure the phantom power supply switch is set to the off position.

CAUTION: Make sure the phantom power settings are correct before connecting the microphone to avoid damage to equipment. Do not exceed 48v phantom power supply, exceeding this limit may result in damage to the equipment and create a hazardous situation.

If a separate phantom power supply is required connect it to the screw terminals labelled **Power +** and **gnd**.

Connect the microphone to the balanced input labelled **Mic +, -** and **gnd**.

Balanced Output Connections

If balanced audio output is required connect it to the screw terminals labelled balanced output left & right, hot & cold and ground.

Serial Control Connections

Connect the display device serial control to the screw terminals labelled **Display Tx & Rx**.

For setting up the equipment and for remote control of the switch connect to the PC Comms Tx & Rx terminals.

The ground terminal is shared between the two connections.

- Ensure to cross-connect the serial devices, so that TX goes to RX, RX goes to TX, and GROUND goes to GROUND.
- Double check all connections before connecting power to the unit.

Configuration

In order to correctly set up the AVS-SL-PR-0201-0301 switch, download the Solecis Device Configuration Software from www.amx.com, then click on *Support*.

Once installed, make sure the switch is connected correctly to a PC serial port and then start the device installer software.

The software will scan the serial ports on the PC and find the attached device (FIG. 2).

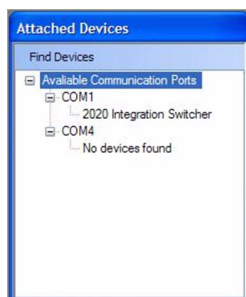


FIG. 2 Attached Devices

Double click on the required port and the devices front control status will then be displayed (FIG. 3).



FIG. 3 Switch Status Monitor

FIG. 3 shows the PC control panel for the AVS-SL-PR-0201-0301, it replicates exactly what is seen on the front of the unit.

Clicking on a button on the screen will have the same effect as manually pressing the equivalent button.

Click on the Unit Address to change the value set for installation where multiple addressable units are required.

When the reset interface option is checked then every time the power supply to the unit is reset, it will initialise itself into the default mode of PC 1 selected with no mix, no mute and the mode set to AV.

Note: Refer to the *Solecis AVS-SL-PR-0201-0301 Presentation Switcher Operation/Reference Guide* for details on configuring the unit.

Operation

Power On

This button turns the display device on, the button lights to show the current status.

Power Off

This button turns the display device off, the button lights to show the current status.

PC 1 & PC 2

These buttons allow input selection of the two PC inputs. The button lights to reflect the press.

Video 1, 2 & 3

Same as PC1 & PC2 but for the video inputs.

AUX

Same again but for the auxiliary audio input. This can only be selected in AV & Audio modes.

Mute / Blank

Blanks the video and mutes the audio in AV mode, blank in video mode and mute in audio.

Mode

Toggles between the three modes, AV, Video and Audio.

Volume Up & Down

Used to control the volume of the line level output. This control is a master volume control and thus affects all of the input volume levels but does not change the differences in attenuation. Therefore, once the input with the highest attenuation level reaches minimum volume, the volume cannot be reduced any more regardless of the current input level. The same applies for increasing the volume.

Mic Mix

When selected, the switched audio is combined with the microphone onto the balanced output. By holding the mix button for 2-3 seconds, the unit is placed in microphone volume adjust mode. The volume control lights will flash and at which point the volume buttons will now control the microphone volume level only. Holding the mix button in for a further 2-3 seconds takes the unit back to normal operation and the buttons stop flashing.

Mic Mute

Mutes the microphone input when selected.

Audio Breakaway

When the device is in audio breakaway mode, the input that is highlighted is the last button pressed, it does not necessarily reflect the full extents of the switcher's current status.

For example if in AV mode that PC1 was selected then the mode was change to video mode and Video 1 was selected then video 1 would be displayed but the audio would still be set the PC1 and not be reflected on the display at all.

Additional Documentation

Refer to the *Solecis AVS-SL-PR-0201-0301 Presentation Switcher Operation/Reference Guide* (available online at www.amx.com) for details on installing and configuring the unit as well as supported Send Commands and Troubleshooting info.